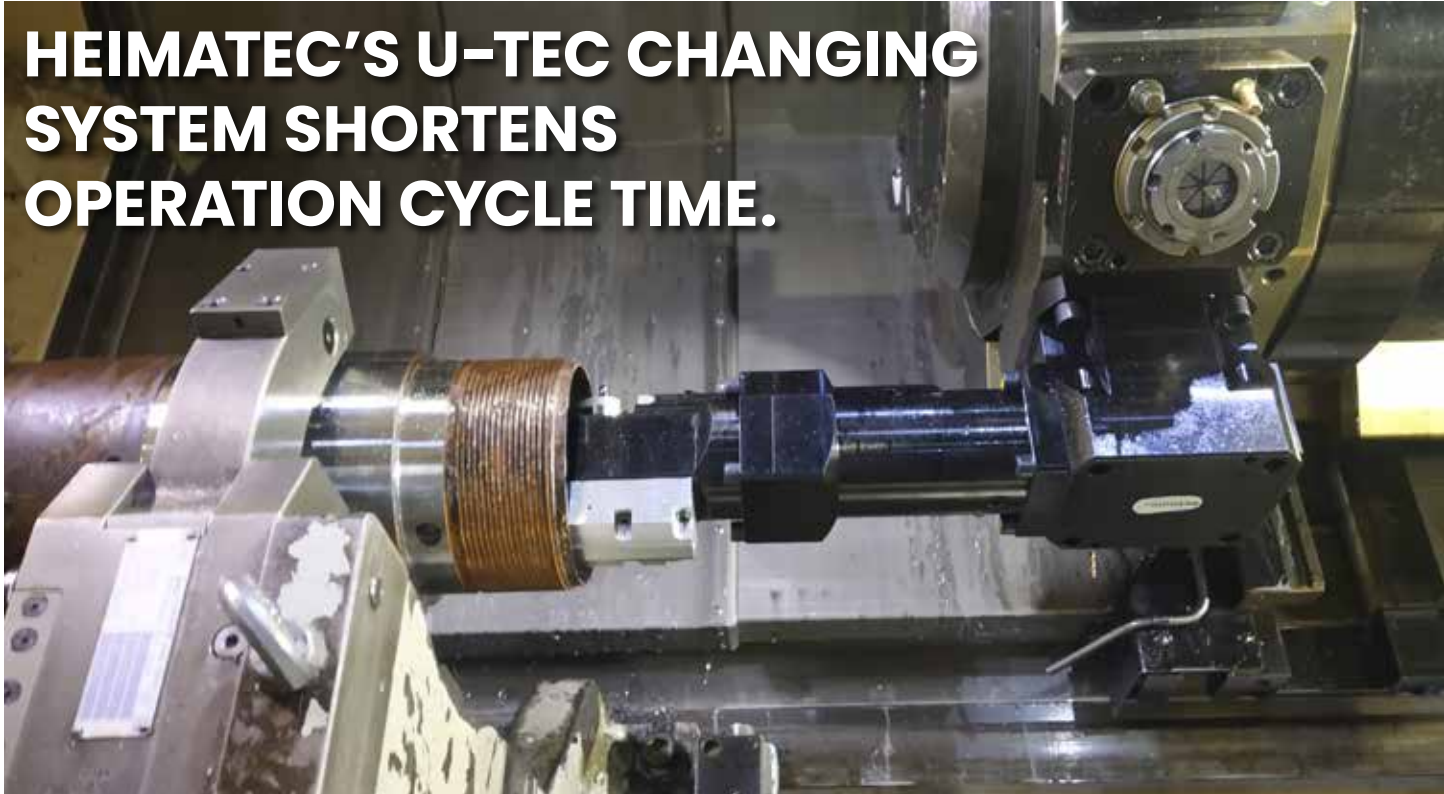


HEIMATEC INDIA'S CUSTOMER SUCCESS STORY

HEIMATEC'S U-TEC CHANGING SYSTEM SHORTENS OPERATION CYCLE TIME.



Efficient manufacture is made significantly easier in two ways. If machine downtimes can be reduced, the productive time thereby increases automatically. By using flexible universal tools, the tool inventory can also be reduced, and costs saved as a result. The precision tool manufacturer Heimatec (Germany) developed the flexible heimatec.u-tec® tool change system for this purpose, which is established in the market for many years, and allows machining companies to utilise different adapters for a wide variety of machining tasks.

In particular, Heimatec's live tool holders are doing remarkable a job in the Indian market. One of their major corporate customers and success story in India is Ultra Corpotech Private Limited who shared with us, on how they benefitted from the U-Tec flexible changing system.

Challenge For Heimatec

UltraEngineers have been actively engaged in the manufacturing of precision and high quality Heavy Duty Metal Components used for specific application in Oil & Gas industries, Energy and Power Sector, Automobile and Heavy Engineering Projects.

Recently, Ultra was struggling for one ID key way Slotting Operation on their DMG Mori NLX 2500-BMT60 turn mill machine. The component name was a Body Lock Ring Housing for Liner Top Packer, which seals

Heimatec India offers the widest range, highest performance and most durable Live Tools.

incorporate elastomers at the seal interface, demanding a high accuracy in specific areas. Originally, the process for the ID key way slotting was "shaping the slot with reciprocating movement of the boring bar" which was not only time consuming but Ultra was also having a real hard time controlling the slot dimensions by taking multiple cuts of 0.05mm to reach depth of 5-6 mm.

Ultra, as an established customer of Heimatec India, contacted the team and posed them a challenge. The goal was to improve the overall cycle time for the job, especially for ID grooving. They also required a particularly smooth surface for slotting. Heimatec India took this as a challenge and started working on it. The major difficulty was to enter the diameter of 127 mm and to achieve the slot length up to 350 mm. The job needs to be completed in a single setup. This was a real challenge to eliminate the shaping operation and to reduce the

operation cycle time from two hours to minimal time possible without disturbing the required finishing and dimensional accuracy.

Heimatec's Solutions

Heimatec India then suggested the idea to shift the slot shaping operation to slot milling on turn mill. And it worked! Heimatec Germany designed a U-type special head with ER25 output. Designed for the most difficult manufacturing tasks, heimatec offers a comprehensive program for machining centers of standard and customer-specific precision tools. Heimatec angle heads are available in standard 90° version, recessed and slim design as well as in dual-spindle and +/-90° adjustable versions. With heimatec's angle head tool program, full processing on machining centers is made possible. The head was also given through a coolant facility to machine the slot smoothly till length of 350 mm.

In addition to a comprehensive program of standard angled heads, heimatec offers a compact, high-



performance slim design range, which has been specially developed for difficult contours and is ideal for small immersion diameters and large immersion depths:

The inside workings of housing parts, such as the bearing seats for hydraulic pumps or hydraulic engines, sets high demands on tool units. In this way, the maximum rigidity of the tool system can be assured and as a direct result, precision processing may be achieved.

With this unique solution, the operation cycle time of Ultra's ID grooving has been reduced to an estimated 35 minutes and the overall cycle time of the component reduced by almost two hours. ✨

For detailed information on heimatec.u-tec® please visit <https://heimatec.com/tool-change-system-u-tec>

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